Equivalent of Form PTO/SB/08a (01-08)
Approved for use through 01/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMR control number

Substitute	for form	1449/PT	0	Complete	if Known
				Application Number	10/694,945
INFO	RMAT	ION I	DISCLOSURE	Filing Date	October 29, 2003
STAT	EMEN	NT BY	APPLICANT	First Named Inventor	Vasudevan Parthasarathy
(Use as many sheets as necessary)				Art Unit	2611
				Examiner Name	Tran, Khai
Sheet	1	of	2	Attorney Docket Number	1875.5430000

			U.S. PATENT DO	OCUMENTS	
Examiner Cite Initials* No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
IIIIuais	10.	Number-Kind Code ^{2 (If Known)}	WIWI-DD-1111	Applicant of Cited Document	or Relevant Figures Appear
	US1	4,627,070	12-02-1986	Champlin et al.	
	US2	4,833,605	05-23-1989	Terada et al.	
	US3	4,833,695	05-23-1989	Greub	
	US4	4,967,201	10-30-1990	Rich, III	
	US5	5,726,991	03-10-1998	Chen et al.	
	US6	5,793,990	08-11-1998	Jirgal et al.	
	US7	5,933,021	08-03-1999	Mohd	
	US8	6,081,570	06-27-2000	Ghuman et al.	
	US9	6,137,734	12-24-2000	Schoner et al.	
	US10	6,140,956	10-31-2000	Hillman et al.	
	US11	6,259,693 B1	07-10-2001	Ganmukhi	
	US12	6,317,804 B1	11-13-2001	Levy et al.	
	US13	6,438,717 B1	08-20-2002	Butler et al.	
	US14	6,483,849 B1	11-19-2002	Bray et al.	
	US15	7,032,139 B1	04-18-2006	Iryami et al.	
	US16	7,035,228 B2	04-25-2006	Baumer	
	US17	2001/0012288 A1	08-09-2001	Yu	
	US18	2001/0015664 A1	08-23-2001	Taniguchi	
	US19	2001/0021953 A1	09-13-2001	Nakashima	
	US20	2001/0017595 A1	08-30-2001	Cliff et al.	

		Fo	REIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				T ⁶
	FP1					
	FP2					
	FP3					
	FP4					
	FP5					
	FP6					
	FP7					
	FP8			•		
	FP9					

Examiner	Date	
Signature	Considered	

DOC#784492_1.DOC

English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (01-08)
Approved for use through 01/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	for form	1449/PT	0	Complete if Known	
				Application Number	10/694,945
INFO	RMAT	ION E	DISCLOSURE	Filing Date	October 29, 2003
STAT	EME	NT RY	APPLICANT	First Named Inventor	Vasudevan Parthasarathy
• • • • • • • • • • • • • • • • • • • •			ets as necessary)	Art Unit	2611
(,			• • • • • • • • • • • • • • • • • • • •	Examiner Name	Tran, Khai
Sheet	2	of	2	Attorney Docket Number	1875.5430000

			U.S. PATENT DO	CUMENTS		
Examiner Cite Initials No. 1	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
iiiiuais	NO.	Number-Kind Code ^{2 (If Known)}	MIMI-DD-1111	Applicant of Cited Document	or Relevant Figures Appear	
	US21	2002/0054569 A1	05-09-2002	Morkawa		
	US22	2003/0009307 A1	01-09-2003	Mejia et al.		
	US23	2003/0048781 A1	03-13-2003	Peirson		
	US24	2003/0120791 A1	06-26-2003	Weber et al.		
	US25	2003/0172332 A1	09-11-2003	Rearick et al.		
	US26	2004/0083077 A1	04-29-2004	Baumer et al.		
	US27	2004/0088443 A1	05-06-2004	Tran et al.		
	US28	2004/0141497 A1	07-22-2004	Amirichimeh et al.		
	US29	2004/0141531 A1	07-22-2004	Amirichimeh et al.		
	US30	2004/0117698 A1	06-17-2004	Tran et al.		
	US31	2005/0190690 A1	09-01-2005	Tran		
	US32	2006/0250985 A1	11-09-2006	Baumer		
	US33					
	US34					
	US35					
-	US36					
	US37					
	US38					
	US39					
	US40					

			FOREIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	FP10					
	FP11					
	FP12					
	FP13					
	FP14					
	FP15					
	FP16					
	FP17					
	FP18					

Examiner	Date	
Signature	Considered	

DOC#784492_1.DOC

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (01-08) Approved for use through 01/31/2008. OMB 0661-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known		
				Application Number	10/694,945	
INFORMATION DISCLOSURE				Filing Date	October 29, 2003	
STATEME	STATEMENT BY APPLICANT			First Named Inventor	Vasudevan Parthasarathy	
			s necessary)	Art Unit	2611	
•	, , , , , , , , , , , , , , , , , , , ,			Examiner Name	Tran, Khai	
Sheet	1	of	3	Attorney Docket Number	1875.5430000	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	NPL1	Cisco Systems, Hiroshi Suzuki: Taking Ethernet Beyond the LAN, http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_profile.html	
	NPL2	Cisco Systems, Q&A: Hiroshi Suzuki on Extending Ethernet Beyond the LAN, http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_qa.html	
	NPL3	Cisco Systems, Innovators Profiles, http://newsroom.cisco.com/dlls/innovators/inn_profiles.html	
	NPL4	Cisco Systems, Optical, http://newsroom.cisco.com/dlls/innovatros/optical/	
	NPL5	Cisco Systems, Cisco Systems ad Aretae Interactive Launch Internet Powered Property (IP2), http://newroom.cisco.com/dlls/global/asiapac/news/2000/pr_07-25.html.	
	NPL6	"Broadcom Announces the First 0.13-micron CMOS Multi-Rate Gigabit Octal Serializers/Deserializers" [online], Broadcom Press Release, October 29, 2002 [retrieved on 2003-07-16]. Retrieved from the Internet: <url: cgi-bin="" http:="" pr="" prps.cgi?pr_id="PR021029" www.broadcom.com=""> (5 pages).</url:>	
	NPL7	BCM8040 8-Channel Multi-rate 1.0-3.2-GBPS Retimer Switch [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <url: 8040.html="" http:="" products="" www.broadcom.com=""> (2 pages).</url:>	
	NPL8	8-Channel Multi-Rate CMOS Retimer with Full Redundancy [online], BCM8040 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <url: 8040.html="" http:="" products="" www.broadcom.com=""> (2 pages).</url:>	
	NPL9	BCM8020 8-Channel Multi-rate 1.0-3.2-GBPS Transceiver [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <url: 8020.html="" http:="" products="" www.broadcom.com=""> (2 pages).</url:>	
	NPL10	8-Channel Multi-Rate CMOS Transceiver with Full Redundancy [online], BCM8020 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <url: 8020.html="" http:="" products="" www.broadcom.com=""> (2 pages).</url:>	

Examiner	I	Date	
Signature		Considered	
_	 		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Equivalent of Form PTO/SB/08b (01-08) Approved for use through 01/31/2008. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

unless it contains a valid OMP control nur Under the Department Deduction Act of 1005, we necessary are

Substitute for	form 1449/P7	го		Con	Complete if Known		
				Application Number	10/694,945		
INFORM	NOITA	DISC	LOSURE	Filing Date	October 29, 2003		
STATE	STATEMENT BY APPLICANT			First Named Inventor	Vasudevan Parthasarathy		
	(Use as many			Art Unit	2611		
				Examiner Name	Tran, Khai		
Sheet	2	of	3	Attorney Docket Number	1875.5430000		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL11	BCM8021 4-Channel Multi-rate 1.0-3.2-GBPS Transceiver with High-Speed Redundancy [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <url: 8021.html="" http:="" products="" www.broadcom.com=""> (2 pages).</url:>	
	NPL12	4-Channel Multirate 1.0-3.2-GBPS Transceiver with High-Speed Redundancy [online], BCM8021 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <url: 8021.html="" http:="" products="" www.broadcom.com=""> (2 pages).</url:>	
	NPL13	Broadcom Announces the Industry's First 0.13-micron CMOS Advanced Transciver Solution with Signal Conditioning for Low-Cost 10-Gigabit Over Copper Links [online], Broadcom Press Release, April 29, 2003 [retrieved on 2003-07-16]. Retrieved from the Internet: <url: cgi-bin="" http:="" pr="" prps.cgi?pr_id="PR030429A" www.broadcom.com=""> (4 pages).</url:>	
	NPL14	Alaska Quad-Port Gigabit Ethernet Over Copper Transceivers, from http://www.marvell.com/products/transceivers/quadport/, 1 page, printed May 8, 2007.	
	NPL15	Alaska X10 Gigabit Ethernet Alaska Gigabit Ethernet Fast Ethernet Physical Layer (PHY) Transceiver Families Provide a Full Range of Ethernet Transceiver Solutions for the Broadband Communications Industry, from http://www.nuhorizons.com/FeaturedProducts/Volume3/Marvell/ phy_transceiver.asp, 4 pages, Copyright 2007, printed May 8, 2007.	
	NPL16	Industry Breakthrough: Marvell Announces the First Quad-Port Transceiver to Support Both Copper and Fiber-Optic Gigabit Ethernet Interfaces, from Business Wire at www.encyclopedia.com/printable/aspx?id=1G1:68912211, 4 pages, January 9, 2001, printed May 8, 2007.	
	NPL17	David Maliniak (ed.), Bel's integrated connector modules support Marvell's Alaska quad Gigabit Ethernet transceiver, from http://www.electronicsweb.com/Content/news/, 1 page, December 14, 2000, printed May 8, 2007.	
	NPL18	Marvell Gets Small, from http://www.lightreading.com/document.asp?doc_id=12004&print=true, 1 page, February 19, 2002, printed May 8, 2007.	
	NPL19	Marvell Introduces the Industry's Smallest Quad-Port Gigabit Transceiver Device, Enabling Ultra High Port Density Enterprise Switching Systems, from http://www.marvell.com/press/press NewsDisplay.do?releaseID-41, 3 pages, February 19, 2002, printed May 8, 2007.	
	NPL20	Q&A: Hiroshi Suzuki on Extending Ethernet Beyond the LAN, from http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_qa.html, 3 pages, Copyright 1992-2003, printed July 29, 2003.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control numbe							
Substitute for form 1449/PTO					Complete if Known		
				Application Number	er 10/694,945		
INFORMAT	ION D	ISC	LOSURE	Filing Date	October 29, 2003		
STATEMEN	IT BY	API	PLICANT	First Named Inven	otor Vasudevan Parthasarathy		
			s necessary)	Art Unit	2611		
				Examiner Name	Tran, Khai		
Sheet	3	of	3	Attorney Docket N	lumber 1875.5430000		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T^2
	NPL21	IEEE Std. 802.3, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications, Section Two, pp. 9-55, Copyright 2002.	
	NPL22	IEEE Std. 802.3, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications, Section Four, pp. 9-152, Copyright 2005.	
	NPL23	Ed Turner, David Law, Sept. 17-19, 2001, "IEEE P802.3ae MDC/MDIO", http://www.ieee802.org/3/efm/public/sep01/turner_1_0901.pdf (copy attached).	
	NPL24		
	NPL25		
	NPL26		
	NPL27		
	NPL28		
	NPL29		
	NPL30		

Examiner	Date	
Signature	Considered	

comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any